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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/306,888	05/07/1999	DAVID G OPSTAD	P2380-505	4127

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EXAMINER

HAVAN, THU THAO

ART UNIT PAPER NUMBER

2672

20

DATE MAILED: 10/02/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/306,888

Applicant(s)

OPSTAD ET AL.

Examiner

Thu-Thao Havan

Art Unit

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 26 June 2003.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-31 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-9, 11-13, 16-20, 22-27 and 29-31 is/are rejected.
- 7) ☒ Claim(s) 10, 14, 15, 21 and 28 is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on _____ is: a) ☐ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449) Paper No(s) _____.
- 4) ☐ Interview Summary (PTO-413) Paper No(s). _____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____.

DETAILED ACTION

Response to Arguments

1. Applicant's arguments with respect to claims 1-31 have been considered but are moot in view of the new ground(s) of rejection.

Claim Objections

2. Claims **10, 14-15, 21, and 28** are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

The prior art of record fails to anticipate or rendered obvious the technical features of claims **10, 14-15, 21, and 28**. The prior art fails to teach or suggest having determining whether data table is of a first type or a second type when the data is determined not to be present in the font; directly initiating synthesizing step if data table is of first type; or, providing an indication that data table is not present in the font if data table is of second type, and initiating synthesizing step upon receipt of a request that is responsive to indication as recited in the claim.

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

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4. Claims **1-9, 11-13, 16-20, 22-27, and 29-31** are rejected under 35 U.S.C. 103(a) as being unpatentable over Sonnenschein (US patent no. 5,500,931) in view of Patel et al (US patent no. 6,426,751).

Re claims **11, 19, and 26**, Sonnenschein teaches a system for generating images of characters, comprising a font subsystem which is responsive to identification of characters to access at least one font file to retrieve glyphs associated with the identified characters (col. 5, lines 12-27), and data tables that contain information about glyphs in the font (figs. 4-6), a font table synthesizer which is responsive to the absence of a predetermined data table for creating and storing table on the basis of data contained in the font file (col. 4, lines 41-52). In other words, Sonnenschein teaches a data table pertains to the layout of the glyphs in figures 4-8f. Figures 4-6 and 8a-8f disclose a predetermined data table for the needed glyphs. He discloses creating an ordered font table containing a plurality of glyphs, each glyph corresponding to one character in the ordered font table displayed in the first font style. His system determines if the examined character can be displayed in the first font style by searching the ordered font table to determine if there is an associated glyph for the examined character, and if an associated glyph is found, then associating the first font style with the examined character and associates the font style originally associated with the examined character if the examined character does not have an associated glyph in the ordered font table font.

Sonnenschein fails to specifically disclose creating a table. Nevertheless, both Sonnenschein and Patel teach changes font style features. The glyphs are layout in tables.

However, Patel specifically teaches creating a table (col. 1, lines 17-41; fig. 4). In other words, Patel teaches creating a table for the font layout. The table contains

information on glyph positioning, glyph substitution, justification, and baseline positioning. Patel's system creates subtables to store in fonts. Based on the font style that are needed then the subtables are created. His system writes out the table or subtable definitions into a font file by creating tables and other output. His system process can use an optional glyph alias database. In one implementation, a feature file is compiled and the rules extracted from the feature file are fed into table creation modules. In this implementation, the interface to the table creation modules is extremely simple as a result of the GNode representation--the creation process being defined by the target and the replacement GNodes.

Therefore, taking the combined teaching of Sonnenschein and Patel as a whole, it would have been obvious to combine the teaching of Patel to the system of Sonnenschein because doing so would have enabled processing fonts to improve font layout in a table format as noted in Patel (col. 1, lines 17-41; figs. 2 and 4-element 420).

Re claims **12 and 25**, Patel discloses font subsystem determines whether a predetermined data table is contained in the font file, and causes synthesizer to create table when a determination is made that the table is not present in the font file (col. 4, line 52 to col. 5, line 7; fig. 4).

Re claims **13, 20, and 27**, Patel discloses an annex file (col. 7 to col. 14).

Re claims **6, 16, 22, and 29**, Sonnenschein teaches a method for automatically synthesizing a data table that contains information about glyphs in a font, comprising the steps of building a font map that contains information about individual glyphs in the

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font (col. 5, lines 12-27), determining relationships between items of information in the font map.

Sonnenschein fails to specifically disclose constructing a table.

However, Patel specifically teaches constructing a table (col. 1, lines 17-41; fig. 4). In other words, Patel teaches constructing a table for the font layout. The table contains information on glyph positioning, glyph substitution, justification, and baseline positioning.

Therefore, taking the combined teaching of Sonnenschein and Patel as a whole, it would have been obvious to combine the teaching of Patel to the system of Sonnenschein because doing so would have enabled processing fonts to improve font layout in a table format as noted in Patel (col. 1, lines 17-41; figs. 2 and 4-element 420).

Re claims **7-8, 17-18, 23-24, and 30-31**, Sonnenschein discloses font map is specific to the font and other information is generic to multiple fonts (col. 5, lines 39-59).

Re claims **1-5 and 9**, the limitations of claims 1-5 and 9 are analyzed as discussed with respect to claims 11-13, 16-20, and 22-27 above.

Inquiries

5. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Thu-Thao Havan whose telephone number is (703) 308-7062. The examiner can normally be reached on Monday to Thursday from 9:00-5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Razavi can be reached on (703) 305-4713.

Any response to this action should be mailed to:

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Commissioner of Patents and Trademarks

Washington, D.C. 20231

or faxed to:

(703) 872-9314 (for Technology Center 2600 only)

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington, VA, Sixth Floor (Receptionist).

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Technology Center 2600 Customer Service Office whose telephone number is (703) 306-0377.

Thu-Thao Havan
September 8, 2003

A handwritten signature in black ink, appearing to read 'M. Razavi', with a large, stylized loop at the end.

MICHAEL RAZAVI
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2600